Course Competency

ATT 2823 Air Traffic Control (ATC) NON-Radar

Course Description

In this course, future air traffic controllers wil l acquire an understanding of air traffic control practices, policies and procedures and their appli cation in a non-radar air traffic environment. Thr oughout this course, (Non-Radar Procedures) approp riate real-life examples are used to illustrate th e reasoning behind procedures used by air traffic controllers utilizing the non-radar methods. The l iberal use of figures and example phraseology is u sed to assist the student in achieving an overall understanding of the air traffic control system. P rerequisites: ATT 2820, ASC 1210. Special fee. (3 hr. lecture)

Course Competency	Learning Outcomes
Competency 1: The student will demonstrate knowledge and understanding of subject matter relating to ATC Non-Radar operations by:	1. Communication 2. Numbers / Data 3. Critical thinking 4. Computer / Technology Usage

a. Recalling the requirements of the initial separation of successive departing aircraft, including minimums on diverging courses as well as on same courses.
   b. Stating the requirements for initial separation of departing and arriving aircraft, including separation minimums.
   c. Describing requirements for longitudinal separation of aircraft, including minimums in same, converging, crossing or opposite courses, DME arc, other than established airways or routes, and RNAV on diverging/crossing courses.
   d. Identifying vertical separation requirements, including vertical separation minimums, their application and exceptions, separation by pilots, and RNAV along VOR Airway/Routes.
   e. Listing lateral separation requirements, including minimums on diverging radials, DME arc, other than established airways or routes, and RNAV on diverging/ crossing courses.	

f.. Discussing timed approaches, including application, approach sequence, sequence interruption, level flight restrictions, interval minimums, time checks and missed approaches. g. Using standard ATC communications in non-radar operations. h. Analyzing ATC clearances in non-radar operations.	
Competency 2: The student will demonstrate the ability to analyze and interpret the following ATC documentation by:	1. Numbers / Data 2. Computer / Technology Usage 3. Critical thinking
a. Applying low altitude & high altitude Instrument Flight Rules (IFR) charts b. Utilizing Instrument Approach Procedures (IAP), Departure Procedures (DP), and Standard Instrument Arrivals (SIA). c. Identifying Flight Data Center Notices to Airmen (FDC NOTAMS) d. Reporting Pilot Reports (PIREP) e. Providing strip markings f. Producing aircraft position reports	
Competency 3: The student will demonstrate proficiency in Non-Radar ATC communications and operations by:	1. Communication 2. Critical thinking 3. Computer / Technology Usage
a. Accomplishing control tower simulation exercises in a simulated ATC environment (simulator) using FAA standards; multiple traffic and weather scenarios will be utilized including alerts, emergencies, and conflict situation to include runway incursions. b. Issuing clear, concise commands to aircraft in various situations to resolve or prevent conflict. Providing a detailed, standard position relief briefing during training exercises. c. Pemonstrating reasoned, decisive procedures in emergency/abnormal situations. e. Receiving and logging non-radar aircraft position reports. d. Adapting communications to purpose, audience, and occasion.	

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